

EXPRESS MAIL NO. EV734505894US

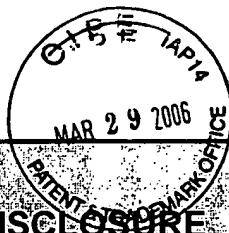
PTO/SB/08A (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/081,327
				Filing Date	02-21-2002
				First Named Inventor	Huang
				Art Unit	1634
				Examiner Name	Jeanine Anne Goldberg
Sheet	1	of	2	Attorney Docket Number	40629-2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JG	A1	US-4,882,195	07-21-1987	Yilmaz	
	A2	US-4,883,202	07-28-1987	Mullis	
	A3	US-4,800,159	01-24-1989	Mullis et al.	
	A4	US-5,589,339	12-31-1996	Hampson et al.	
	A5	US-5,591,575	01-07-1997	Hampson et al.	
	A6	US-5,786,146	07-28-1998	Herman et al.	
	A7	US-5,071,847	02-10-1999	Duffy	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)				

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
JG	A8	AKOPYANTS et al., "PCR-based Subtractive Hybridization and Differences in Gene Content Among Strains of <i>Helicobacter pylori</i> ", Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 13108-13113, 1998				
	A9	ANTEQUERA, F., et al., "High Levels of De Novo Methylation and Altered Chromatin Structure at CpG Islands in Cell Lines", Cell, Vol. 2, pp. 503-514, 1990				
	A10	BAYLIN et al., "Alterations in DNA Methylation: A Fundamental Aspect of Neoplasia", Advances in Cancer Research, pp. 140-196, 1998				
	A11	BAYLIN, STEPHEN B., "Tying it all Together: Epigenetics, Genetics, Cell Cycle, and Cancer", Science, Vol. 277, pp. 1948-1949, 1997				
	A12	BELINSKY et al., "Aberrant Methylation of p16 ^{INK4a} is an Early Event in Lung Cancer and a Potential Biomarker for Early Diagnosis", Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 11891-11896, 1998				
	A13	BELINSKY et al., "Increased Cytosine DNA-methyltransferase Activity is Target-cell-specific and an Early Event in Lung Cancer", Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 4045-4050, 1996				
	A14	BLOOM, H.J.G. AND RICHARDSON, W.W., "Histological Grading and Prognosis in Breast Cancer", British Journal of Cancer, Vol. 11, pp. 359-377, 1957				
	A15	BRANDEIS, M. et al., "Sp1 Elements Protect a CpG Island from <i>de novo</i> Methylation", Nature, Vol. 371, pp. 435-438, 1994				
	A16	CAROTTI et al., "Influence of Pre-existing Methylation on the <i>de Novo</i> Activity of Eukaryotic DNA Methyltransferase", Biochem. J., Vol. 37, pp. 1101-1108, 1998				
	A17	CHRISTMAN et al., "5-Methyl-2'-deoxycytidine in single-stranded DNA can act in cis to Signal <i>de novo</i> DNA Methylation", Proc. Natl. Acad. Sci., USA, Vol. 92, pp. 7347-7351, 1995				
	A18	CHUANG et al., "Human DNA-(Cytosine-5) Methyltransferase-PCNA Complex as a Target for p21 ^{WAF1} ", Science, Vol. 277, pp. 1996-2000, 1997				
	A19	CRAIG et al., "Removal of Repetitive Sequences from FISH Probes Using PCR-Assisted Affinity Chromatography", Hum. Genet., Vol. 100, pp. 472-476, 1997				
	A20	CROSS et al., "Purification of CpG Islands Using a Methylated DNA Binding Column", Nature Genet., Vol. 8, pp. 236-244, 1994				
	A21	FROMMER, M. et al., "A Genomic Sequencing Protocol that Yields a Positive Display of 5-Methylcytosine Residues in Individual DNA Strands", Proc. Natl. Acad. Sci. USA, Vol. 89, pp. 1827-1831, 1992				
	A22	GRAFF et al., "Mapping Patterns of CpG Island Methylation in Normal and Neoplastic Cells Implicates Both Upstream and Downstream Regions in <i>de Novo</i> Methylation", J. Biol. Chem., Vol. 272, No. 35, pp. 22322-22329, 1997				



Substitute for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/081,327		
		Filing Date	02-21-2002		
		First Named Inventor	Huang		
		Art Unit	1634		
		Examiner Name	Jeanine Anne Goldberg		
Sheet	2	of	2	Attorney Docket Number	40629-2

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s), publisher, city and/or country where published.	T ²
JG	A23	HERMAN et al., "Methylation-specific PCR: A Novel PCR Assay for Methylation Status of CpG Islands", Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 9821-9826, 1996	
	A24	HUANG, T.H., et al., "Methylation Profiling of CpG Islands in Human Breast Cancer Cells", Human Molecular Genetics, Vol. 8, No. 3, pp. 459-470, 1999	
	A25	JONES, P.A., "DNA Methylation Errors and Cancer", Cancer Res., Vol. 56, pp. 2463-2467, 1996	
	A26	LAIRD et al., "DNA Methylation and Cancer", Hum. Mol. Genet., Vol. 3, pp. 1487-1495, 1994	
	A27	LEE J.H. and WELCH D.R., "Identification of Highly Expressed Genes in Metastasis-Suppressed Chromosome 6/Human Malignant Melanoma Hybrid Cells Using Subtractive Hybridization and Differential Display", Int. J. Cancer, Vol. 71, pp. 1035-1044, 1997	
	A28	Li et al., "Role for DNA Methylation in Genomic Imprinting", Nature, Vol. 366, pp. 362-365, 1993	
	A29	MUMMANENI, P., et al., "Epigenetic Gene Inactivation Induced by a Cis-acting Methylation Center", J. Biol. Chem., Vol. 270, No. 2, pp. 788-792, 1995	
	A30	PFEIFER, G.P., et al., "Polymerase Chain Reaction-Aided Genomic Sequencing of an X Chromosome-linked CpG Island: Methylation Patterns Suggest Clonal Inheritance, CpG Site Autonomy, and an Explanation of Activity State Stability", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 8252-8256, 1990	
	A31	SAIKI et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase", Science, Vol. 239, pp. 487-491, 1988	
	A32	SCHENA et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray", Science, Vol. 270, pp. 467-470, 1995	
	A33	SINGER-SAM, J. and RIGGS, A.D., "X-Chromosome Inactivation and DNA Methylation", DNA Methylation: Molecular Biology and Biological Significance, pp. 358-384, 1993	
	A34	VERTINO et al., "De Novo Methylation of CpG Island Sequences in Human Fibroblasts Overexpressing DNA (Cytosine-5) - Methyltransferase", Mol. Cell Biol., Vol. 16, pp. 4555-4565, 1996	
	A35	WU et al., "Expression of Prokaryotic HhaI DNA Methyltransferase is Transforming and Lethal to NIH 3T3 Cells", Cancer Res., Vol. 56, pp. 616-622, 1996	

Examiner Signature	/Jeanine Goldberg/	Date Considered	04/26/2006
--------------------	--------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.